Logistics Information Interoperability

DLIS—Information Brokers
Defense Logistics Information Service
"A Defense Logistics Agency (DLA) Activity"

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09/12/16

Transformation

Secretary of Defense Donald Rumsfeld said, “Simply put, transformation is change. … most important, in the way all of the services work together… America's armed forces have to become more flexible and agile”

Transformation

Defense officials continue to aggressively move toward improving practices that will help the warfighters become more **interoperable** and that will provide capability to project and sustain **joint, coalition or service forces** with a smaller logistics footprint. A smaller footprint and **logistics interoperability** go a long way toward enhancement of flexibility and agility and are priorities in the transformation movement.

Exercise

- What is it?
  - Washer?
  - Shim?
  - Insulator?
- It depends

Standard Item Name Directory

ITEM NAME
WASHER,FLAT

STATUS	CONCEPT NO	FIIG	APP KEY	INC	COND CODE
A	1	A022B0	B	13393	1

ITEM NAME DEFINITION

A washer having a centrally located hole with a solid or laminated cross-section and two flat parallel bearing surfaces. The hole must be 75 percent or less than the largest dimension and the bearing surface finish is greater than 32 microinch (0.8 micrometer). The thickness cannot exceed 25 percent of the largest outside dimension. When the largest outside dimension is less than 1/4 inch or 6mm, the thickness must be 0.006 inches (0.15mm) or greater and for items 1/4 inch (6mm) or larger, the thickness must be 0.016 inches (0.4mm) or greater. The maximum tolerance is applied to dimensions and used as a determining factor. Items with separable lamination use SHIM. For items fabricated from ceramic or electrically rated materials by specification or industry standards use INSULATOR (1), WASHER. Excludes DISK, VALVE, graphite impregnated and lubricated items.

FSC	MODIFIER(S)
5310	

FSC	IMM
5310	KZ

What is it?

- Truck, Utility?
- Trk, Util M998A?
- High Mobility Multi-purpose Wheeled Vehicle (HMMWV)?
- Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton4X4, M998?
- Again, it depends. All the names are used in a variety of Logistics databases.

NSN 2320-01-371-9577

WARFIGHTER NEEDS

“Interoperability is a mandate for the joint force of 2020 – especially in terms of communications, common logistics items, and information sharing.” Joint Vision 2020

When a Common Logistics Language is NOT used.

Picture the scene. Your local friendly supplier and a few simple items….

……..or so it would appear.

When a Common Logistics Language is NOT used

Interoperability is Adversely Affected

- Multiple product databases containing different types of product information
- Inconsistent product descriptions to describe the same products
- Duplicative/oversized inventories
- Overpriced products
- Codes created with no meaning to customer or supplier
- Different codes assigned to the same product
- No central control over maintenance of codes/ classification
- Reduced Combat Capability, Increased Cost

..... and many more.

Standardized Info Vital

- Standardized logistics information is a vital part of interoperability.
- Common Logistics Language is Vital to Interoperability on the Battlefield
  - Warfighters, suppliers, industry and others benefit from standardized data

Federal Catalog System (FCS)

Common Logistics Language

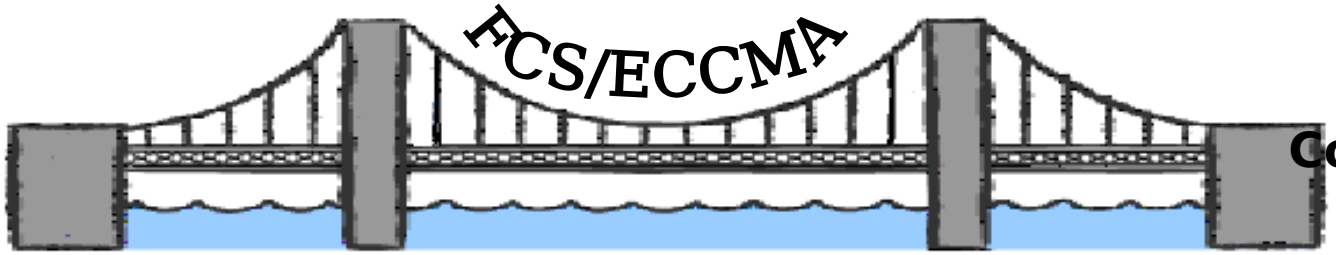
- 50 years of development, use and refinement
- The Federal Catalog System (FCS) is basis for the NATO Codification System (NCS)
- The FCS taxonomy is used internationally
- More than 200 data systems depend on FCS/FLIS
- National Stock Number (NSN) is key
- NSN is basis for item-level logistics decisions
- Electronic Code Commerce Management Association (ECCMA) has recommended the FCS standards, taxonomy and open technical dictionaries (eOTD) for worldwide use

and Commercial Connection

- Common Logistics Language
  - Allies are rapidly adopting the Federal Catalog System taxonomy (47 countries to date)
  - Additional nations awaiting final approval for membership
  - More and more of the commercial sector are on board with (ECCMA)
    - GM and GE as well as others are working with ECCMA to adopt the standards

Military/Commercial Bridge

"There is and always has been a philosophical gulf between the application of cataloging for military purposes and … for commercial. …commercial practices are not precise enough to support cost-effective military inventory management and military cataloging is far too detailed and costly for commercial purposes …ECCMA offers a way to bridge the gulf" Mr. Alan Williams, Asst Dept Minister, Canadian Dept of National Defence



Data Interoperability

Army

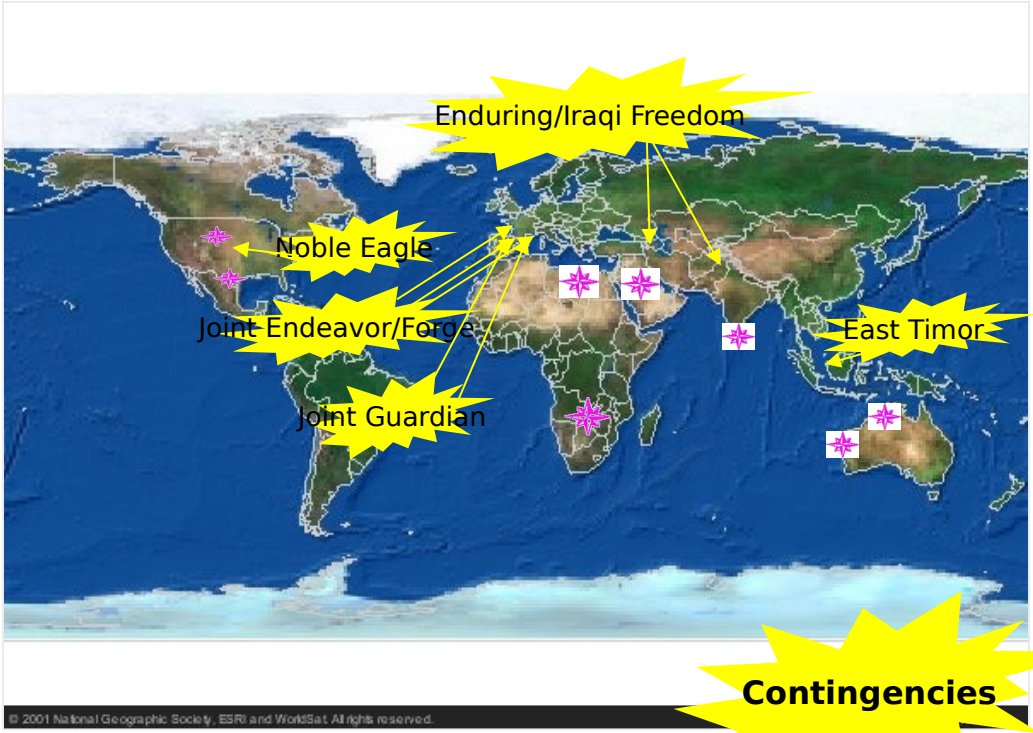
International

Other Government Agencies

Marines

Navy

Air Force



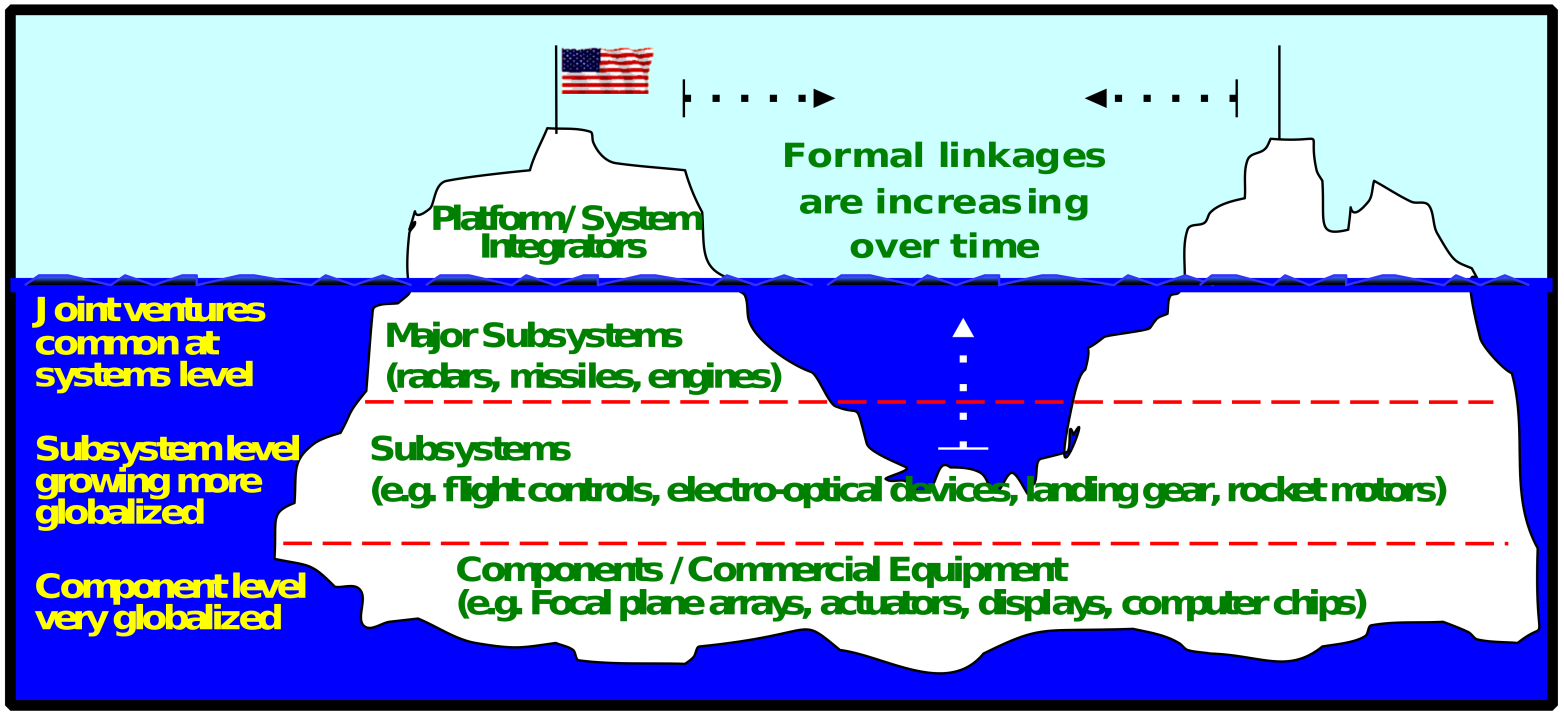
Contingencies

NATO Cataloging Community

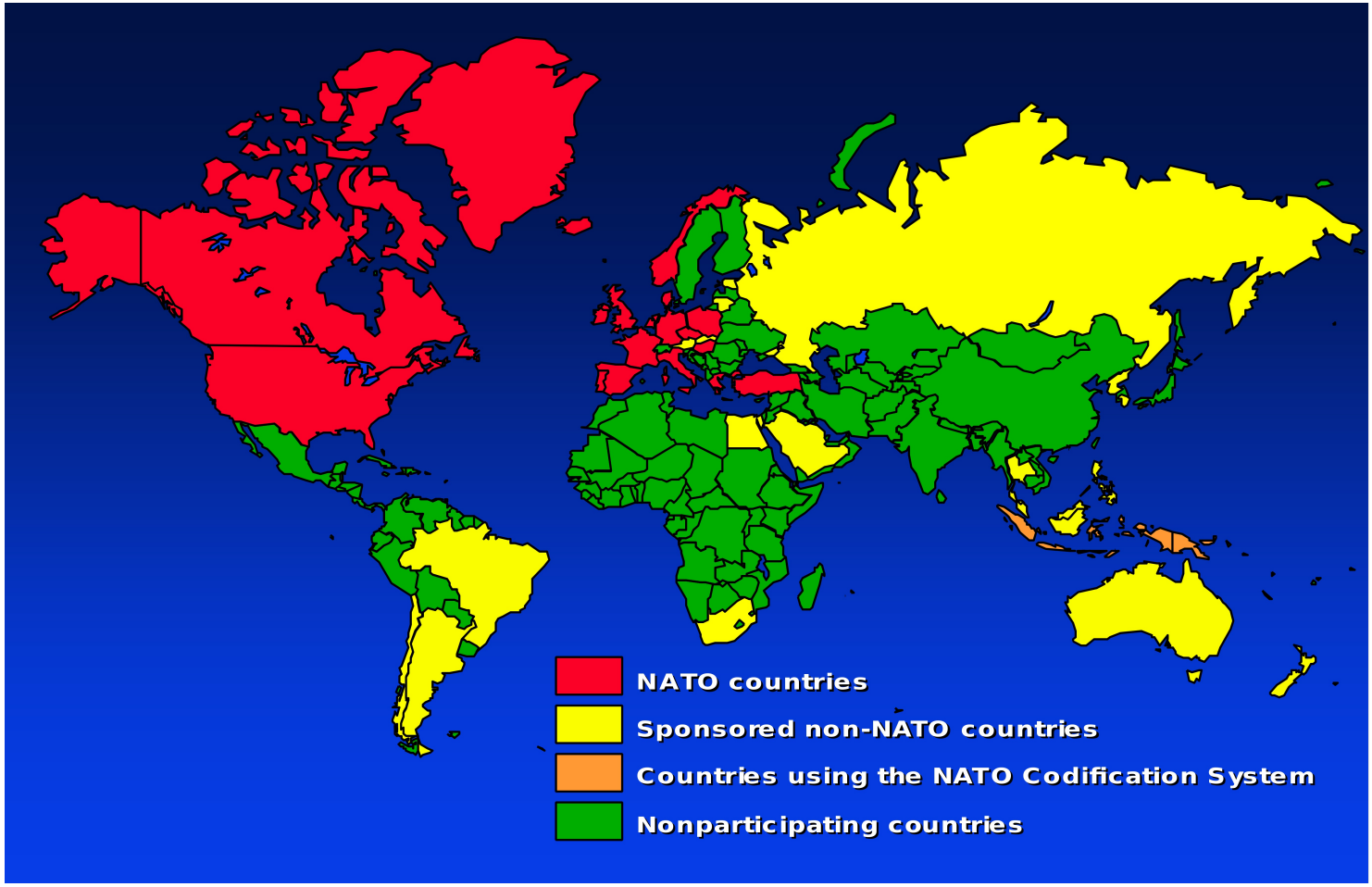
Contractors

Global Linkages Increasing

An Increasingly Integrated Industrial Foundation Among U.S. and Allies

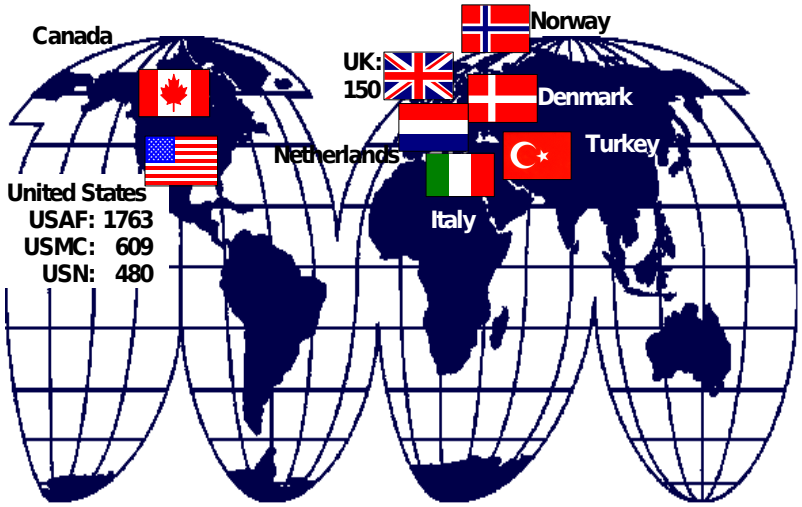

Formal linkages are increasing over time
Platform/System Integrators
Joint ventures common at systems level
Major Subsystems (radars, missiles, engines)
Subsystem level growing more globalized
Subsystems (e.g. flight controls, electro-optical devices, landing gear, rocket motors)
Component level very globalized
Components / Commercial Equipment (e.g. Focal plane arrays, actuators, displays, computer chips)

Nations using FCS Taxonomy (Data Interoperability)



JSF Partner Nations

POTENTIAL INTERNATIONAL PARTNERS



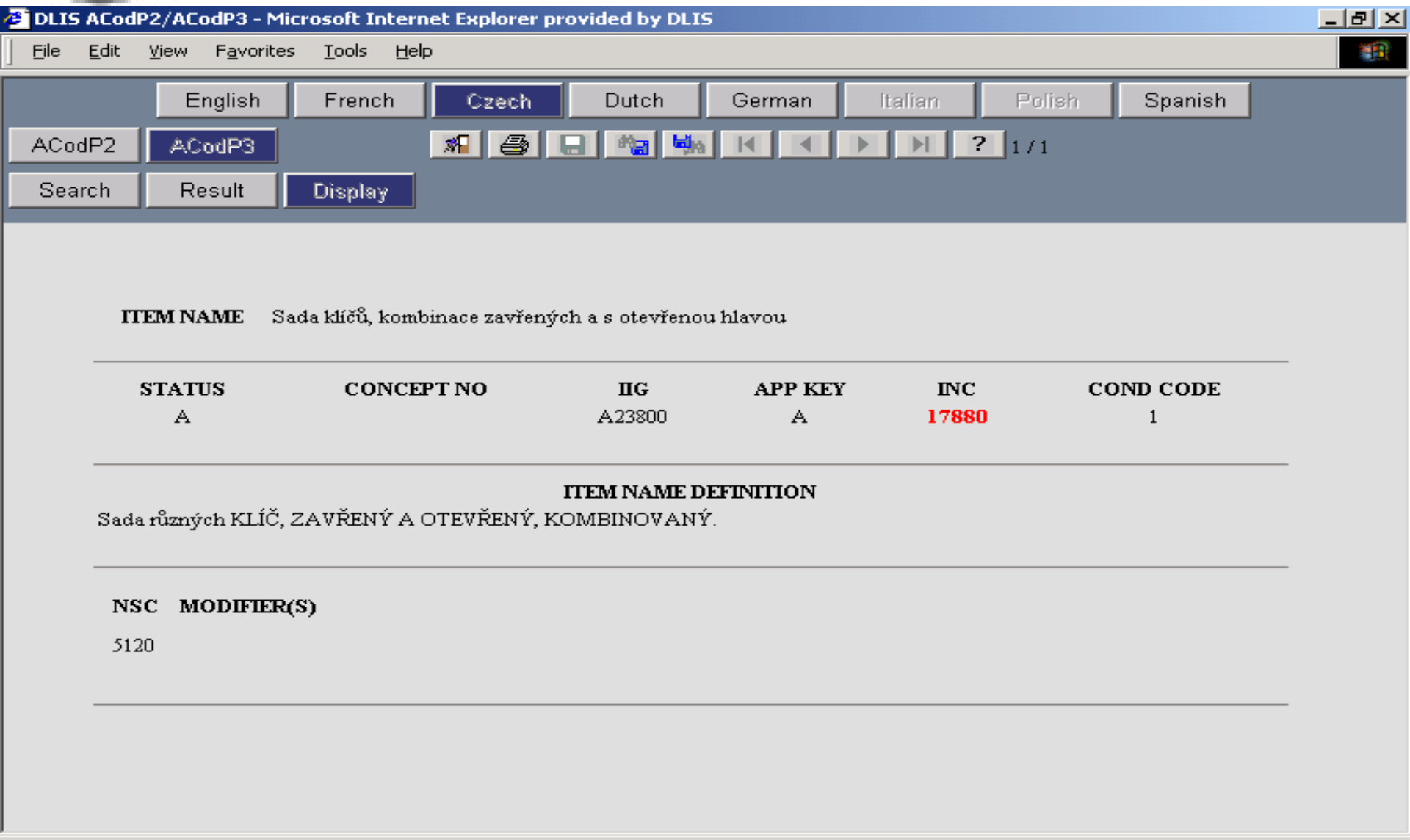
> 2000 International JSFs

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

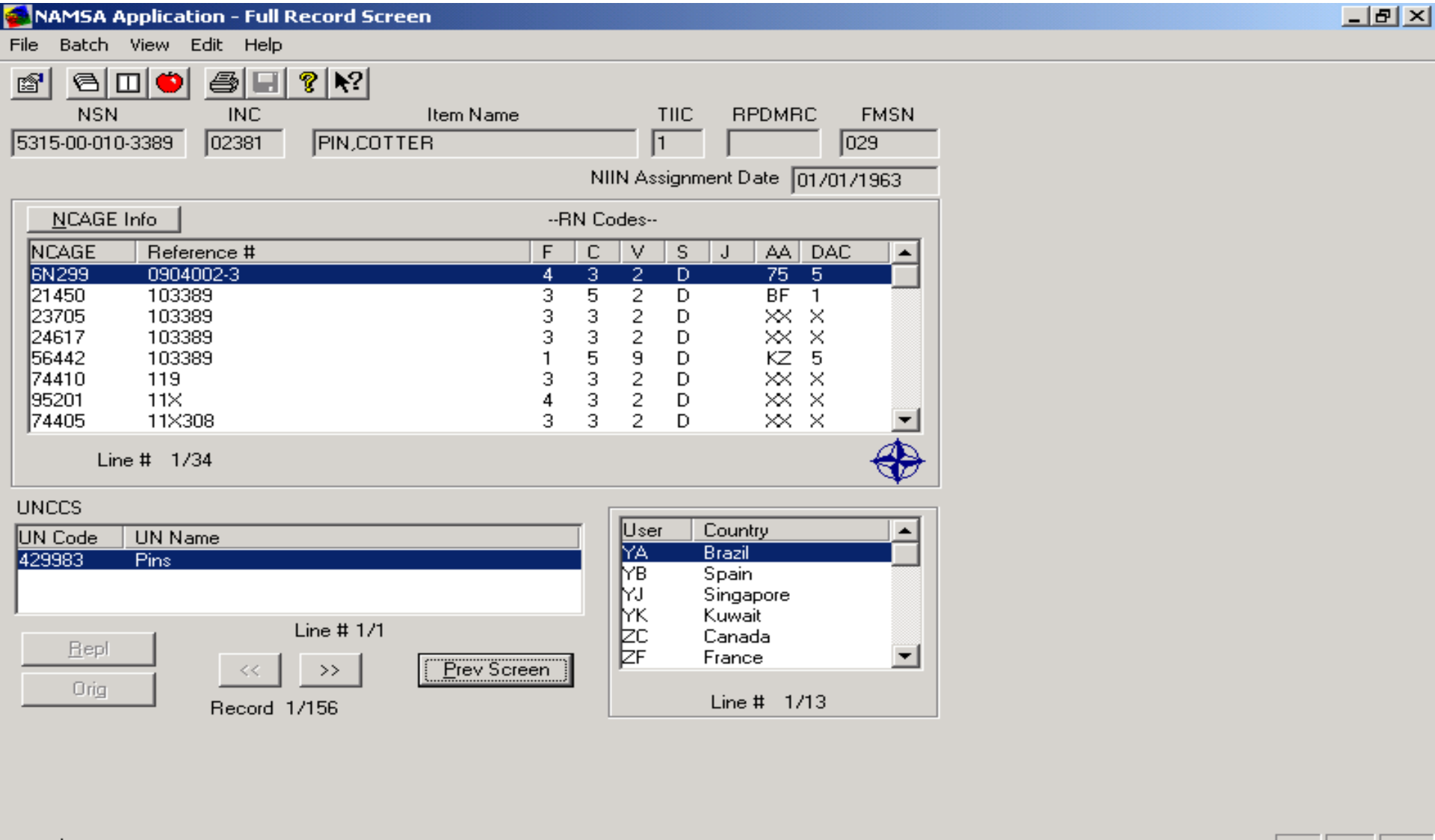
LOCKHEED MARTIN JSF GLOBAL SUPPLIERS

Configuration Controlled Issue 0001, Dated 09/12/01

Multilingual Cataloging Handbook (Coalition Connection)


DLIS ACodP2/ACodP3 - Microsoft Internet Explorer provided by DLIS
File Edit View Favorites Tools Help
English French Czech Dutch German Italian Polish Spanish
ACodP2 ACodP3
1 / 1
Search Result Display
ITEM NAME Sada klíčů, kombinace zavřených a s otevřenou hlavou
STATUS CONCEPT NO IIG APP KEY INC COND CODE
A A23800 A 17880 1
ITEM NAME DEFINITION
Sada různých KLÍČ, ZAVŘENÝ A OTEVŘENÝ, KOMBINOVANÝ.
NSC MODIFIER(S)
5120

NATO MASTER CROSS REFERENCE LIST



Network Centric

- “Industry needs to deliver capabilities that are born “joint” and fit in a **network centric** environment.” MGen Dan Dick, Allied Command Transformation
- Federal Catalog System is the genetic code of a **network centric logistics information environment**.

THE GENETIC CODE OF LOGISTICS DATA

Data Handling

Data Security

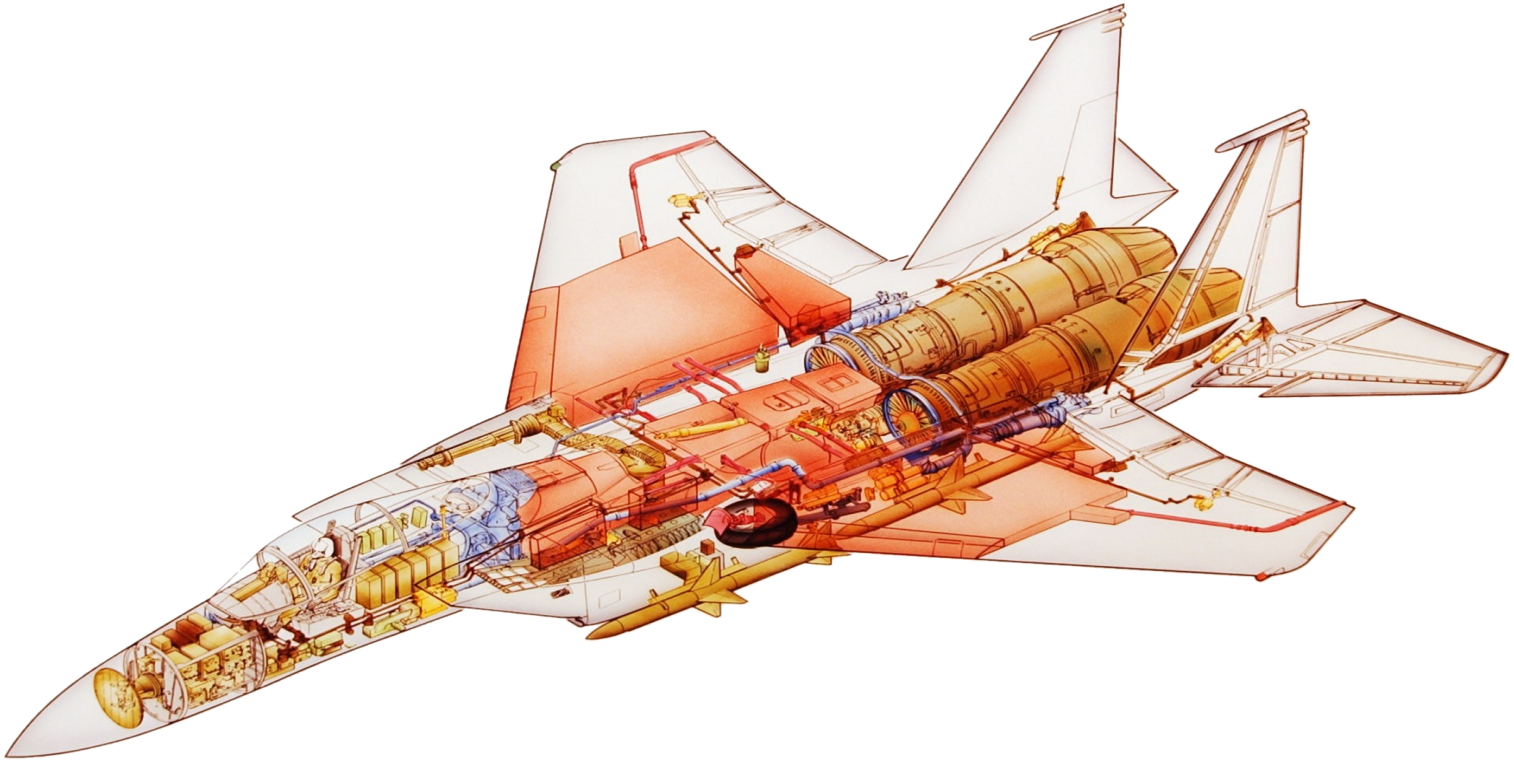
Federal Catalog System

Data Storage

Data Quality / Integrity

Making Sense of

Data Quality/Integrity Crucial



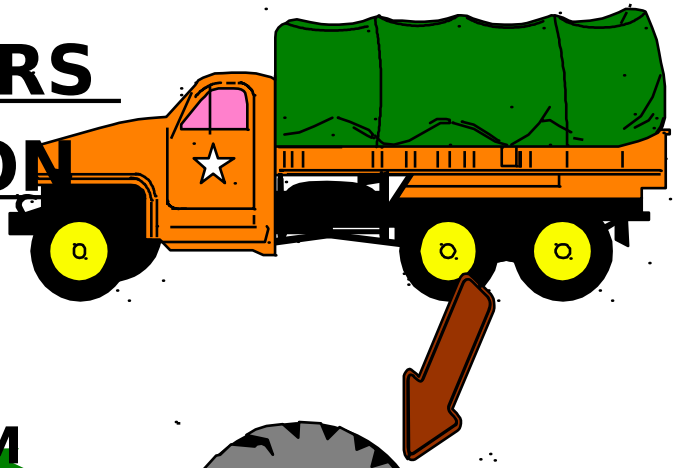
"From a logistics information perspective…
an F-15 is just 171,000 parts flying
in close formation. Integrity of the data is crucial
to mission accomplishment"

Logistics Data and the Supply Chain

- A conservative estimate is that less than 10% of the people who are involved with getting items of supply to the warfighter actually handle the item.
  - **But 100% handle data associated with the item in the supply chain**.
- A common language of standardized, interoperable, stable and accurate logistics information is vital to good supply chain management.

Warfighter Simplicity

MANUFACTURERS IDENTIFICATION SYSTEM



DUNLOP
11-00-20SPTGM

GOODYEAR TIRE CO
11-00-20SRLER

GOODYEAR FRANCE
11-00-20UNISRL

CUP SNC
1100R20GSRT4-16PR

USERS CODIFICATION SYSTEM

NAVY
ARMY
AIR FORCE
OTHER DEPARTMENTS

2610-14-32246

Single Stock Number

09/12/16

NSN STATISTICS

- Approximately 16 million NSNs have been assigned
- Approximately 7+ million by the U.S. and 8+ million by the other NATO countries
- Approximately 30 million reference numbers have been registered on these NSNs
- Approximately 1 million manufacturers and other organizations are registered
- These NSNs contain more than 22 million user registrations

SUMMARY

A Common Logistics Language is a Vital Component to Interoperability on the Battlefield

“Changes in the information environment make information superiority a key enabler of the transformation of the operational capabilities of the joint force and the evolution of joint command and control “ Joint Vision 2020